MATQADLMEL DMAMEPDRKA AVSHWQQQSY LDSGIHSGAT TTAPSLSGKG
NPEEEDVDTS QVLYEWEQGF SQSFTQEQVA DIDGQYAMTR AQRVRAAMFP
ETLDEGMQIP STQFDAAHPT NVQRLAEPSQ MLKHAVVNLI NYQDDAELAT
RAIPELTKLL NDEDQVVVNK AAVMVHQLSK KEASRHAIMR SPQMVSAIVR
TMQNTNDVET ARCTAGTLHN LSHHREGLLA IFKSGGIPAL VKMLGSPVDS
VLFYAITTLH NLLLHQEGAK MAVRLAGGLQ KMVALLNKTN VKFLAITTDC
LQILAYGNQE SKLIILASGG PQALVNIMRT YTYEKLLWTT SRVLKVLSVC
SSNKPAIVEA GGMQALGLHL TDPSQRLVQN CLWTLRNLSD AATKQEGMEG
LLGTLVQLLG SDDINVVTCA AGILSNLTCN NYKNKMMVCQ VGGIEALVRT
VLRAGDREDI TEPAICALRH LTSRHQEAEM AQNAVRLHYG LPVVVKLLHP
PSHWPLIKAT VGLIRNLALC PANHAPLREQ GAIPRLVQLL VRAHQDTQRR
TSMGGTQQQF VEGVRMEEIV EGCTGALHIL ARDVHNRIVI RGLNTIPLFV
QLLYSPIENI QRVAAGVLCE LAQDKEAAEA IEAEGATAPL TELLHSRNEG
VATYAAAVLF RMSEDKPQDY KKRLSVELTS SLFRTEPMAW NETADLGLDI
GAQGEALGYR QDDPSYRSFH SGGYGQDALG MDPMMEHEMG GHHPGADYPV
DGLPDLGHAQ DLMDGLPPGD SNQLAWFDTD L -(GS)n- MDPAEAVLQE
KALKFMNSSE REDCNNGEPP RKIIPEKNSL RQTYNSCARL CINQETVCLT
STAMKTENCV AKAKLANGTS SMIVPKQRKL SASYEKEKEL CVKYFEQWSE
SDQVEFVEHL ISQMCHYQHG HINSYLKPML QRDFITALPA RGLDHIAENI
LSYLDAKSLC AAELVCKEWY RVTSDGMLWK KLIERMVRTD SLWRGLAERR
GWGQYLFKNK PPDENAPPNS FYRALYPKII QDIETIESNW RCGRHSLQRI
HCRSETSKGV YCLQYDDQKI VSGLRDNTIK IWDKSTLECK RILTGHTGSV
LCLQYDERVI ITGSSDSTVR VWDVNAGEML NTLIHHCEAV LHLRFNNGMM
VTCSKDRSIA VWDMASPTDI TLRRVLVGHR AAVNVVDFDD KYIVSASGDR
TIKVWNTSTC EFVRTLNGHK RGIACLQYRD RLVVSGSSDN TIRLWDIECG
ACLRVLEGHE ELVRCIRFDN KRIVSGAYDG KIKVWDLMAA LDPRAPAGTL
CLRTLVEHSG RVFRLQFDEF QIVSSSHDDT ILIWDFLNDP AAHAEPPRSP
SRTYTYISR -(GS)n- PTLMSVPQYR PRPANPDEIG NFIDENLKAA
DSDPTAPPYD SLLVFDYEGS GSEAASLSSL NSSESDQDQD YDYLNEWGNR
FKKLADMYGG GED

Figure 1b(ii) (SEQ ID No. 12)

FIGURE 1 A

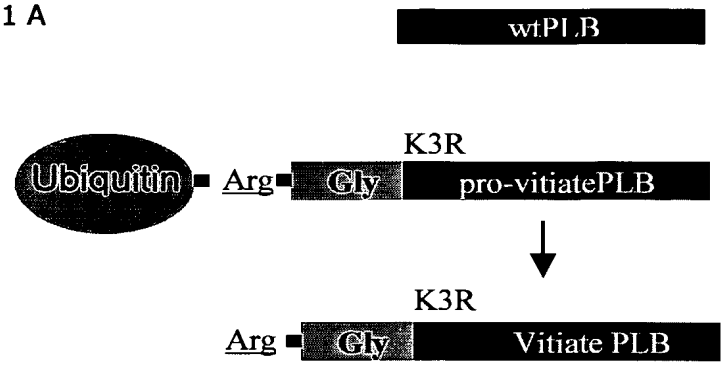


FIGURE 1 B

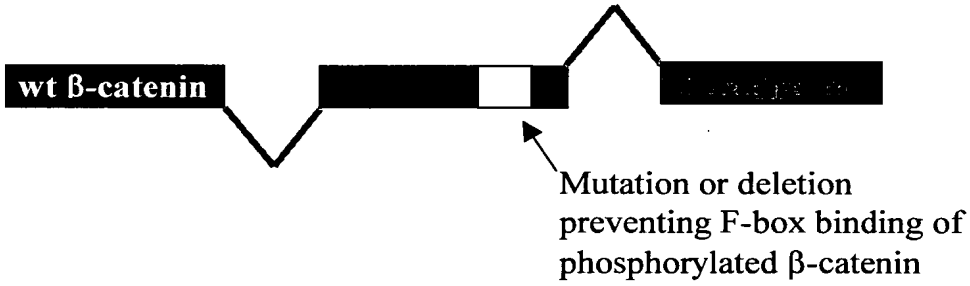


FIGURE 1 C

FIGURE 2

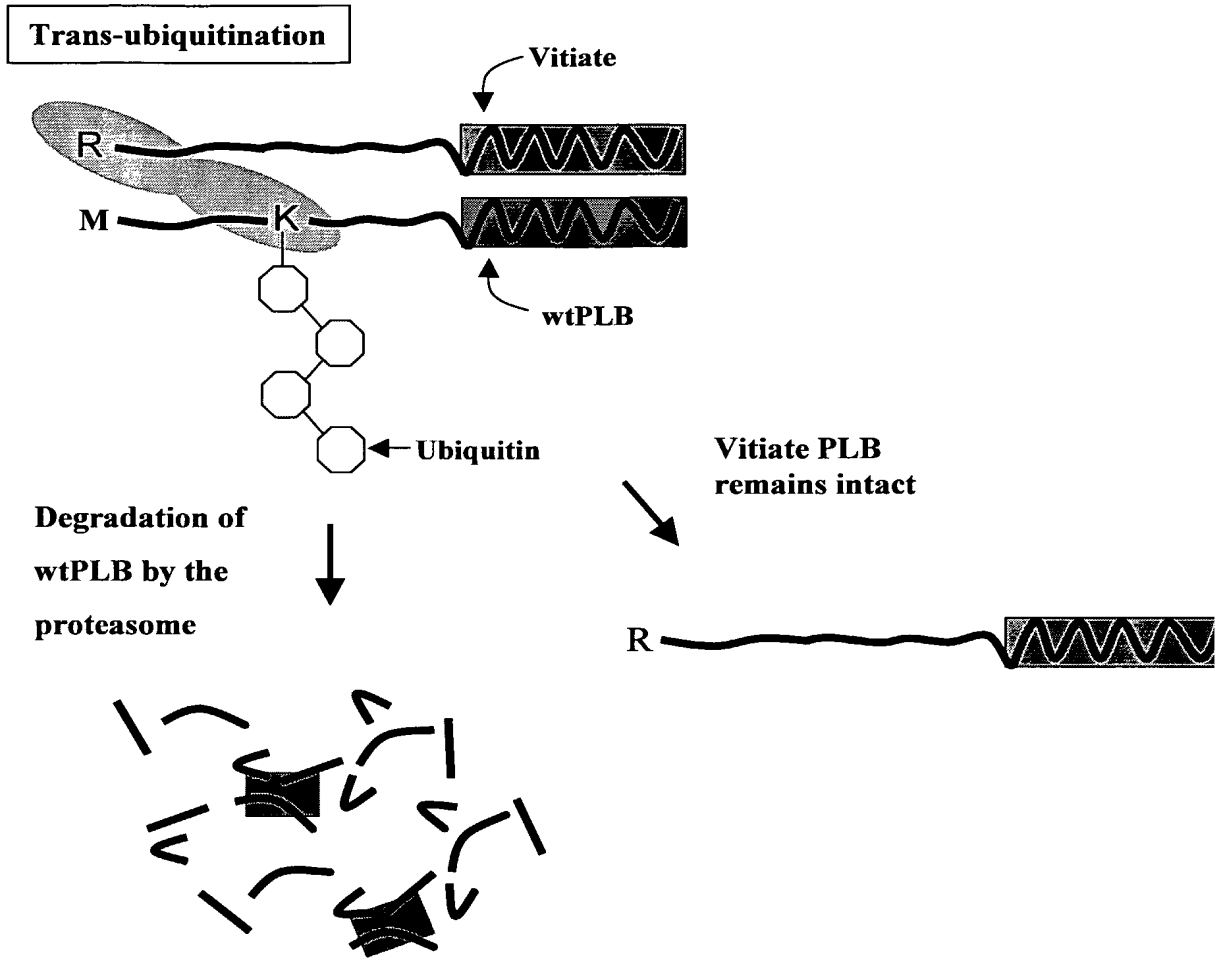
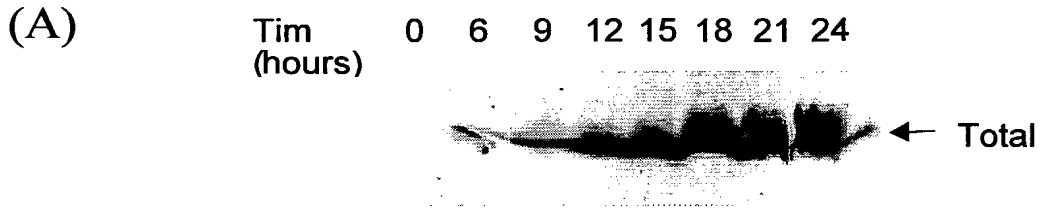
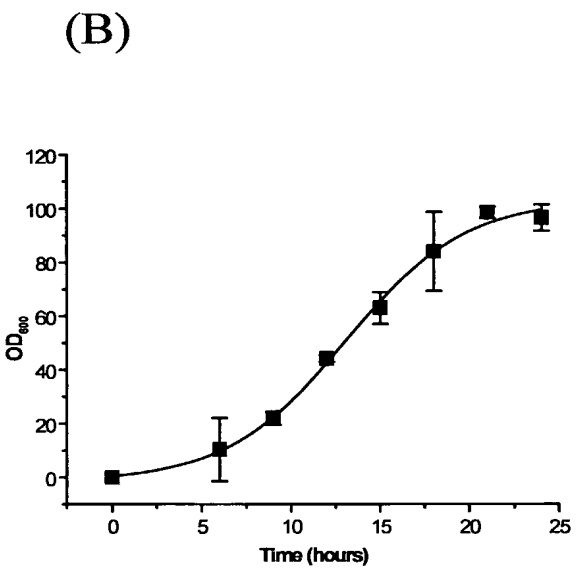

Trans-ubiquitination
Vitiate
R
M
K
wtPLB
Ubiquitin
Vitiate PLB remains intact
Degradation of wtPLB by the proteasome
R

FIGURE.3


(A)
Tim (hours)
0 6 9 12 15 18 21 24
Total


(B)
OD600
Time (hours)

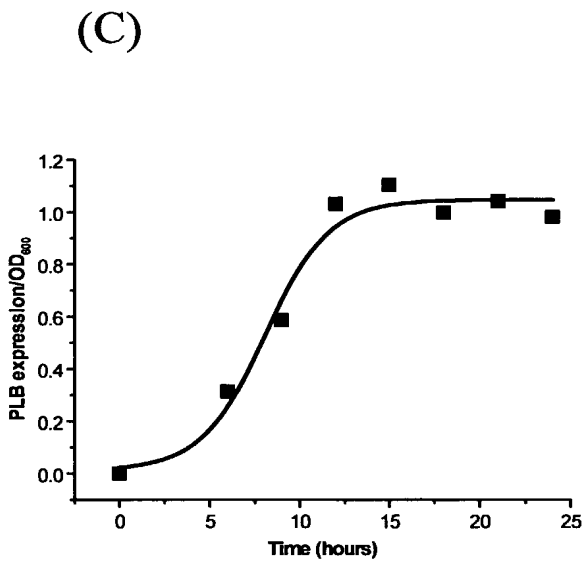

(C)
PLB expression/OD600
Time (hours)

FIGURE 4

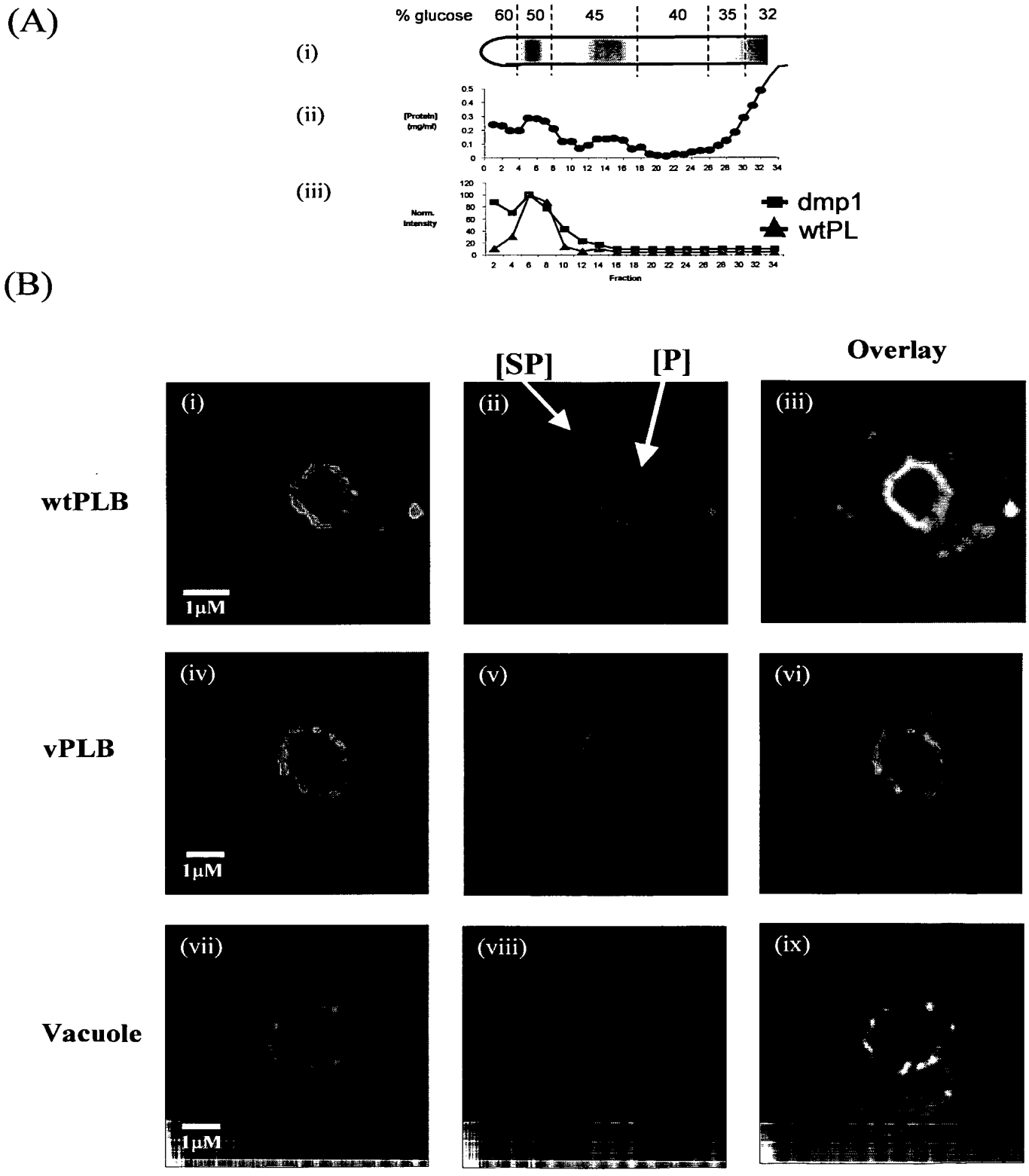
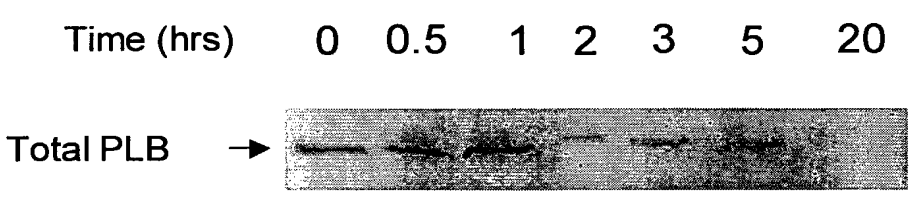

(A)
(i)
(ii)
(iii)
% glucose
60
50
45
40
35
32
[Protein] (mg/ml)
Norm. Intensity
Fraction
dmp1
wtPL
(B)
[SP]
[P]
Overlay
wtPLB
vPLB
Vacuole
(i)
(ii)
(iii)
(iv)
(v)
(vi)
(vii)
(viii)
(ix)
1μM

FIGURE 5

(A)


Time (hrs) 0 0.5 1 2 3 5 20
Total PLB

(B)

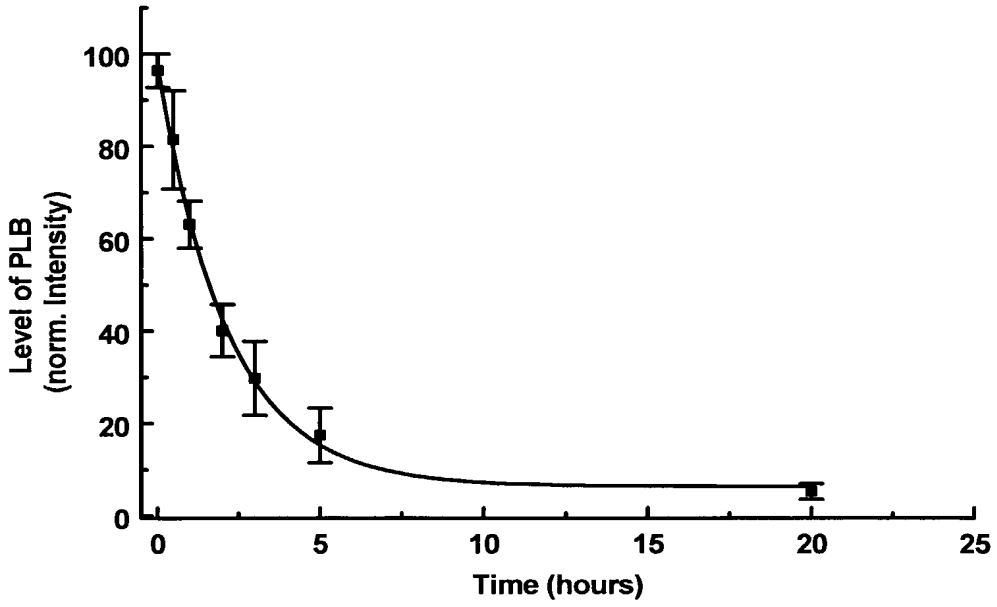

Level of PLB (norm. Intensity)
100
80
60
40
20
0
0
5
10
15
20
25
Time (hours)

FIGURE 6

(A)

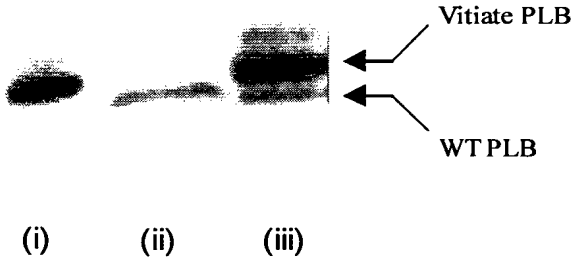
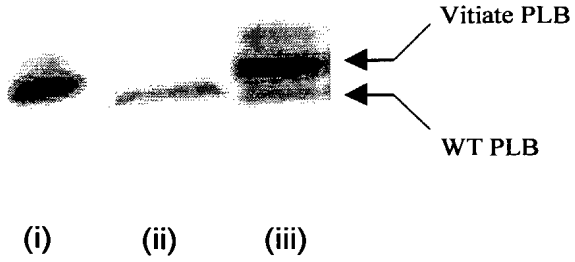
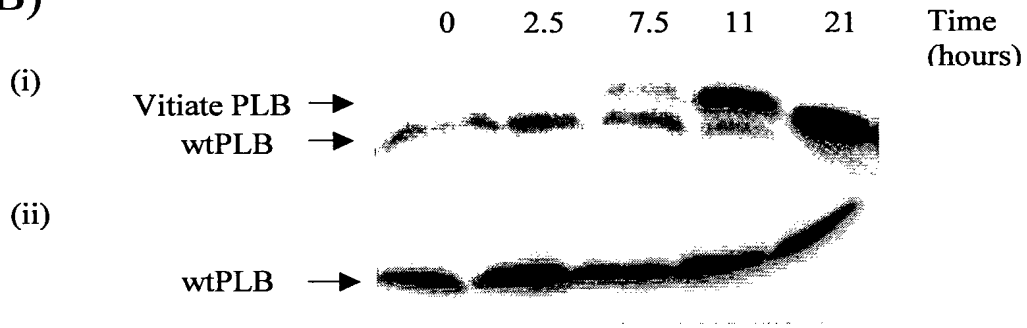


FIGURE 7

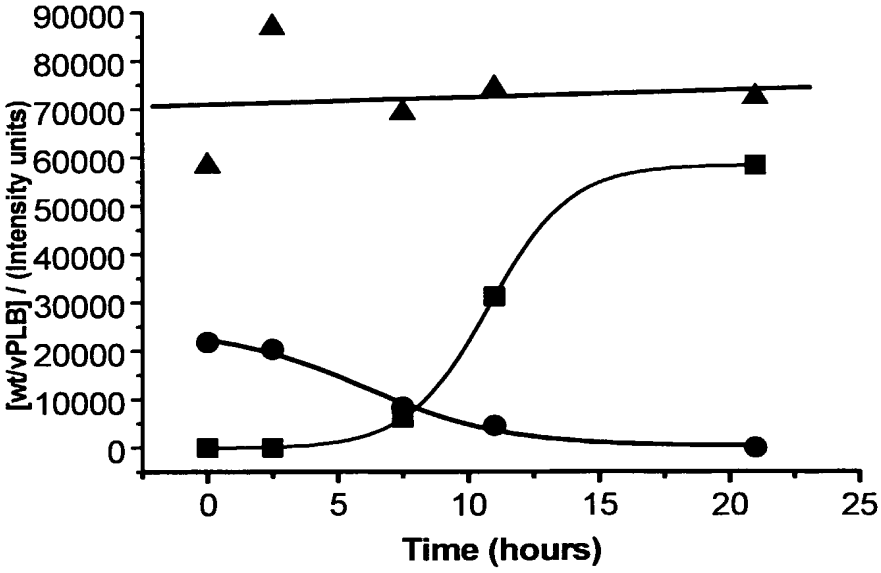
(A)


Vitiate PLB
WT PLB
(i)
(ii)
(iii)

(B)


0
2.5
7.5
11
21
Time (hours)
(i)
Vitiate PLB
wtPLB
(ii)
wtPLB

(C)


90000
80000
70000
60000
50000
40000
30000
20000
10000
0
[wt/vPLB] / (Intensity units)
0
5
10
15
20
25
Time (hours)

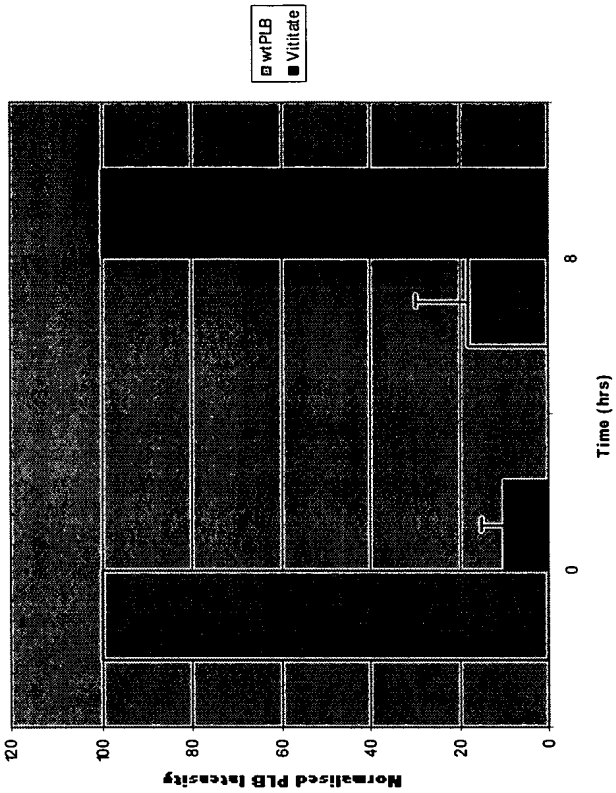


Figure 9

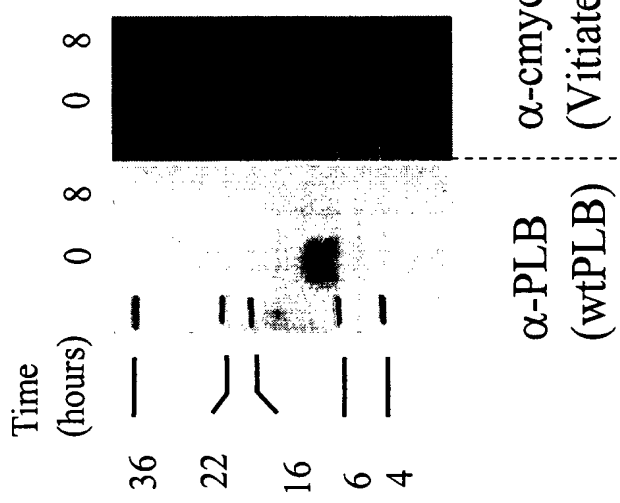


Figure 8